

CLAIMS

1. A method of treating a respiratory infection in a human comprising administering to a human in need thereof a single dose of azithromycin wherein the dose is about
5 30 mg/kg body weight or greater.
2. The method of claim 1 wherein the dose is about 31 mg/kg body weight or greater.
3. The method of claim 1 wherein the dose is about 50 mg/kg body weight or greater.
4. The method of claim 1 wherein the dose is about 70 mg/kg body weight or greater.
5. The method of claim 1 wherein the dose is between about 30 mg/kg and 90 mg/kg
10 body weight.
6. The method of claim 1 wherein the dose is between about 30 mg/kg and 35 mg/kg body weight.
7. The method of claim 1 wherein the dose is between about 31 mg/kg and 35 mg/kg body weight.
8. The method of claim 1 wherein the dose is between about 35 mg/kg and 40 mg/kg
15 body weight.
9. The method of claim 1 wherein the dose is between about 40 mg/kg and 45 mg/kg body weight.
10. The method of claim 1 wherein the dose is between about 45 mg/kg and 50 mg/kg
20 body weight.
11. The method of claim 1 wherein the dose is between about 50 mg/kg and 55 mg/kg body weight.
12. The method of claim 1 wherein the dose is between about 55 mg/kg and 60 mg/kg body weight.
13. The method of claim 1 wherein the dose is between about 60 mg/kg and 65 mg/kg
25 body weight.
14. The method of claim 1 wherein the dose is between about 65 mg/kg and 70 mg/kg body weight.
15. The method of claim 1 wherein the dose is between about 70 mg/kg and 75 mg/kg
30 body weight.
16. The method of claim 1 wherein the dose is between about 75 mg/kg and 80 mg/kg body weight.
17. The method of claim 1 wherein the dose is between about 80 mg/kg and 85 mg/kg body weight.
18. The method of claim 1 wherein the dose is between about 85 mg/kg and 90 mg/kg
35 body weight.
19. The method of claim 1 wherein the human is an adult sixteen years of age or older.

20. The method of claim 1 wherein the respiratory infection is acute otitis media.
21. A method of treating a respiratory infection in a human comprising administering to a human in need thereof a single dose of azithromycin wherein the dose is within the range of about 0.15 to 4.5 g.
- 5 22. The method of claim 21 wherein the respiratory infection is acute otitis media.
23. The method of claim 21 wherein the dose is within the range of about 0.15 to 1.5g.
24. The method of claim 21 wherein the dose is within the range of about 1.5 to 2.5g.
25. The method of claim 21 wherein the dose is within the range of about 2.5 to 3.5 g.
26. The method of claim 21 wherein the dose is within the range of about 3.5 to 4.5 g.
- 10 27. The method of claim 21 wherein the human is an adult sixteen years of age or older.
28. A method of treating a respiratory infection caused by *S. pneumoniae* in a human comprising administering to a human in need thereof a single dose of azithromycin wherein the dose is about 30 mg/kg body weight or greater.
- 15 29. The method of claim 28 wherein the human is an adult sixteen years of age or older.
30. The method of claim 28 wherein the respiratory infection is acute otitis media.
31. The method of claim 28 wherein the dose is about 31 mg/kg body weight or greater.
32. The method of claim 28 wherein the dose is about 50 mg/kg body weight or greater.
- 20 33. The method of claim 28 wherein the dose is about 70 mg/kg body weight or greater.
34. The method of claim 28 wherein the dose is between about 30 mg/kg and 90 mg/kg body weight.
35. The method of claim 28 wherein the dose is between about 30 mg/kg and 35 mg/kg body weight.
- 25 36. The method of claim 28 wherein the dose is between about 31 mg/kg and 35 mg/kg body weight.
37. The method of claim 28 wherein the dose is between about 35 mg/kg and 40 mg/kg body weight.
38. The method of claim 28 wherein the dose is between about 40 mg/kg and 45 mg/kg body weight.
- 30 39. The method of claim 28 wherein the dose is between about 45 mg/kg and 50 mg/kg body weight.
40. The method of claim 28 wherein the dose is between about 50 mg/kg and 55 mg/kg body weight.
- 35 41. The method of claim 28 wherein the dose is between about 55 mg/kg and 60 mg/kg body weight.

42. The method of claim 28 wherein the dose is between about 60 mg/kg and 65 mg/kg body weight.
43. The method of claim 28 wherein the dose is between about 65 mg/kg and 70 mg/kg body weight.
- 5 44. The method of claim 28 wherein the dose is between about 70 mg/kg and 75 mg/kg body weight.
45. The method of claim 28 wherein the dose is between about 75 mg/kg and 80 mg/kg body weight.
46. The method of claim 28 wherein the dose is between about 80 mg/kg and 85 mg/kg body weight.
- 10 47. The method of claim 28 wherein the dose is between about 85 mg/kg and 90 mg/kg body weight.
48. The method of claim 28 wherein the respiratory infection is caused by an *S. pneumoniae* isolate containing a *mef A* gene.
- 15 49. The method of claim 48 wherein the human is an adult sixteen years of age or older.
50. The method of claim 48 wherein the respiratory infection is acute otitis media.
51. The method of claim 48 wherein the dose is about 31 mg/kg body weight or greater.
52. The method of claim 48 wherein the dose is about 50 mg/kg body weight or greater.
- 20 53. The method of claim 48 wherein the dose is about 70 mg/kg body weight or greater.
54. The method of claim 48 wherein the dose is between about 30 mg/kg and 90 mg/kg body weight.
55. The method of claim 48 wherein the dose is between about 30 mg/kg and 35 mg/kg body weight.
- 25 56. The method of claim 48 wherein the dose is between about 31 mg/kg and 35 mg/kg body weight.
57. The method of claim 48 wherein the dose is between about 35 mg/kg and 40 mg/kg body weight.
58. The method of claim 48 wherein the dose is between about 40 mg/kg and 45 mg/kg body weight.
- 30 59. The method of claim 48 wherein the dose is between about 45 mg/kg and 50 mg/kg body weight.
60. The method of claim 48 wherein the dose is between about 50 mg/kg and 55 mg/kg body weight.
- 35 61. The method of claim 48 wherein the dose is between about 55 mg/kg and 60 mg/kg body weight.

62. The method of claim 48 wherein the dose is between about 60 mg/kg and 65 mg/kg body weight.
63. The method of claim 48 wherein the dose is between about 65 mg/kg and 70 mg/kg body weight.
- 5 64. The method of claim 48 wherein the dose is between about 70 mg/kg and 75 mg/kg body weight.
65. The method of claim 48 wherein the dose is between about 75 mg/kg and 80 mg/kg body weight.
- 10 66. The method of claim 48 wherein the dose is between about 80 mg/kg and 85 mg/kg body weight.
67. The method of claim 48 wherein the dose is between about 85 mg/kg and 90 mg/kg body weight.
68. A method of treating a respiratory infection caused by *H. influenzae* in a human comprising administering to a human in need thereof a single dose of azithromycin wherein the dose is about 30 mg/kg body weight or greater.
- 15 69. The method of claim 68 wherein the human is an adult sixteen years of age or older.
70. The method of claim 68 wherein the respiratory infection is acute otitis media.
71. The method of claim 68 wherein the dose is about 31 mg/kg body weight or greater.
- 20 72. The method of claim 68 wherein the dose is about 50 mg/kg body weight or greater.
73. The method of claim 68 wherein the dose is about 70 mg/kg body weight or greater.
74. The method of claim 68 wherein the dose is between about 30 mg/kg and 90 mg/kg body weight.
- 25 75. The method of claim 68 wherein the dose is between about 30 mg/kg and 35 mg/kg body weight.
76. The method of claim 68 wherein the dose is between about 31 mg/kg and 35 mg/kg body weight.
77. The method of claim 68 wherein the dose is between about 35 mg/kg and 40 mg/kg body weight.
- 30 78. The method of claim 68 wherein the dose is between about 40 mg/kg and 45 mg/kg body weight.
79. The method of claim 68 wherein the dose is between about 45 mg/kg and 50 mg/kg body weight.
- 35 80. The method of claim 68 wherein the dose is between about 50 mg/kg and 55 mg/kg body weight.
81. The method of claim 68 wherein the dose is between about 55 mg/kg and 60 mg/kg body weight.

82. The method of claim 68 wherein the dose is between about 60 mg/kg and 65 mg/kg body weight.
83. The method of claim 68 wherein the dose is between about 65 mg/kg and 70 mg/kg body weight.
- 5 84. The method of claim 68 wherein the dose is between about 70 mg/kg and 75 mg/kg body weight.
85. The method of claim 68 wherein the dose is between about 75 mg/kg and 80 mg/kg body weight.
86. The method of claim 68 wherein the dose is between about 80 mg/kg and 85 mg/kg body weight.
- 10 87. The method of claim 68 wherein the dose is between about 85 mg/kg and 90 mg/kg body weight.
88. A method of treating an infection caused by *S. pyogenes* in a human comprising administering to a human in need thereof a single dose of azithromycin wherein the dose is about 30 mg/kg body weight or greater.
- 15 89. The method of claim 88 wherein the human is an adult sixteen years of age or older.
90. The method of claim 88 wherein the infection is a respiratory infection.
91. The method of claim 88 wherein the dose is about 31 mg/kg body weight or greater.
- 20 92. The method of claim 88 wherein the dose is about 50 mg/kg body weight or greater.
93. The method of claim 88 wherein the dose is about 70 mg/kg body weight or greater.
94. The method of claim 88 wherein the dose is between about 30 mg/kg and 90 mg/kg body weight.
- 25 95. The method of claim 88 wherein the dose is between about 30 mg/kg and 35 mg/kg body weight.
96. The method of claim 88 wherein the dose is between about 31 mg/kg and 35 mg/kg body weight.
97. The method of claim 88 wherein the dose is between about 35 mg/kg and 40 mg/kg body weight.
- 30 98. The method of claim 88 wherein the dose is between about 40 mg/kg and 45 mg/kg body weight.
99. The method of claim 88 wherein the dose is between about 45 mg/kg and 50 mg/kg body weight.
- 35 100. The method of claim 88 wherein the dose is between about 50 mg/kg and 55 mg/kg body weight.
101. The method of claim 88 wherein the dose is between about 55 mg/kg and 60 mg/kg body weight.

102. The method of claim 88 wherein the dose is between about 60 mg/kg and 65 mg/kg body weight.
103. The method of claim 88 wherein the dose is between about 65 mg/kg and 70 mg/kg body weight.
- 5 104. The method of claim 88 wherein the dose is between about 70 mg/kg and 75 mg/kg body weight.
105. The method of claim 88 wherein the dose is between about 75 mg/kg and 80 mg/kg body weight.
- 10 106. The method of claim 88 wherein the dose is between about 80 mg/kg and 85 mg/kg body weight.
107. The method of claim 88 wherein the dose is between about 85 mg/kg and 90 mg/kg body weight.
108. A method of treating an infection caused by *E. faecalis* in a human comprising administering to a human in need thereof a single dose of azithromycin wherein the dose is about 30 mg/kg body weight or greater.
- 15 109. The method of claim 108 wherein the human is an adult sixteen years of age or older.
110. The method of claim 108 wherein the infection is a urinary tract infection.
111. The method of claim 108 wherein the dose is about 31 mg/kg body weight or greater.
- 20 112. The method of claim 108 wherein the dose is about 50 mg/kg body weight or greater.
113. The method of claim 108 wherein the dose is about 70 mg/kg body weight or greater.
- 25 114. The method of claim 108 wherein the dose is between about 30 mg/kg and 90 mg/kg body weight.
115. The method of claim 108 wherein the dose is between about 30 mg/kg and 35 mg/kg body weight.
116. The method of claim 108 wherein the dose is between about 31 mg/kg and 35 mg/kg body weight.
- 30 117. The method of claim 108 wherein the dose is between about 35 mg/kg and 40 mg/kg body weight.
118. The method of claim 108 wherein the dose is between about 40 mg/kg and 45 mg/kg body weight.
- 35 119. The method of claim 108 wherein the dose is between about 45 mg/kg and 50 mg/kg body weight.

120. The method of claim 108 wherein the dose is between about 50 mg/kg and 55 mg/kg body weight.
121. The method of claim 108 wherein the dose is between about 55 mg/kg and 60 mg/kg body weight.
- 5 122. The method of claim 108 wherein the dose is between about 60 mg/kg and 65 mg/kg body weight.
123. The method of claim 108 wherein the dose is between about 65 mg/kg and 70 mg/kg body weight.
- 10 124. The method of claim 108 wherein the dose is between about 70 mg/kg and 75 mg/kg body weight.
125. The method of claim 108 wherein the dose is between about 75 mg/kg and 80 mg/kg body weight.
126. The method of claim 108 wherein the dose is between about 80 mg/kg and 85 mg/kg body weight.
- 15 127. The method of claim 108 wherein the dose is between about 85 mg/kg and 90 mg/kg body weight.
128. A method of treating a respiratory infection caused by *M. catarrhalis* in a human comprising administering to a human in need thereof a single dose of azithromycin wherein the dose is about 30 mg/kg body weight or greater.
- 20 129. The method of claim 128 wherein the human is an adult sixteen years of age or older.
130. The method of claim 128 wherein the respiratory infection is acute otitis media.
131. The method of claim 128 wherein the dose is about 31 mg/kg body weight or greater.
- 25 132. The method of claim 128 wherein the dose is about 50 mg/kg body weight or greater.
133. The method of claim 128 wherein the dose is about 70 mg/kg body weight or greater.
- 30 134. The method of claim 128 wherein the dose is between about 30 mg/kg and 90 mg/kg body weight.
135. The method of claim 128 wherein the dose is between about 30 mg/kg and 35 mg/kg body weight.
136. The method of claim 128 wherein the dose is between about 31 mg/kg and 35 mg/kg body weight.
- 35 137. The method of claim 128 wherein the dose is between about 35 mg/kg and 40 mg/kg body weight.

138. The method of claim 128 wherein the dose is between about 40 mg/kg and 45 mg/kg body weight.
139. The method of claim 128 wherein the dose is between about 45 mg/kg and 50 mg/kg body weight.
- 5 140. The method of claim 128 wherein the dose is between about 50 mg/kg and 55 mg/kg body weight.
141. The method of claim 128 wherein the dose is between about 55 mg/kg and 60 mg/kg body weight.
- 10 142. The method of claim 128 wherein the dose is between about 60 mg/kg and 65 mg/kg body weight.
143. The method of claim 128 wherein the dose is between about 65 mg/kg and 70 mg/kg body weight.
144. The method of claim 128 wherein the dose is between about 70 mg/kg and 75 mg/kg body weight.
- 15 145. The method of claim 128 wherein the dose is between about 75 mg/kg and 80 mg/kg body weight.
146. The method of claim 128 wherein the dose is between about 80 mg/kg and 85 mg/kg body weight.
- 20 147. The method of claim 128 wherein the dose is between about 85 mg/kg and 90 mg/kg body weight.